

For Occupational Death and Disability
And Retiree Medical Benefits

Actuarial Valuation Report as of June 30, 2011

July 2012

buckconsultants

Submitted By:
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July 27, 2012

State of Alaska
The Alaska Retirement Management Board
The Department of Revenue, Treasury Division
The Department of Administration, Division of Retirement and Benefits
P.O. Box 110203
Juneau, AK 99811-0203

Certification of Actuarial Valuation

Dear Members of The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration:

This report summarizes the annual actuarial valuation results of the State of Alaska Teachers' Retirement System Defined Contribution Retirement (TRS DCR) Plan as of June 30, 2011 performed by Buck Consultants, LLC.

The actuarial valuation is based on financial information provided in the financial statements audited by KPMG LLP and member data provided by the Division of Retirement and Benefits and summarized in this report. The benefits considered are those delineated in Alaska statutes effective June 30, 2011. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Buck Consultants, LLC is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of the Plan.

The State of Alaska Teachers' Retirement System DCR Plan is funded by Employer Contributions in accordance with the funding policy adopted by the Alaska Retirement Management Board (Board). The funding objective for the State of Alaska Teachers' Retirement System DCR Plan is to pay required contributions that remain level as a percent of TRS DCR Compensation. The Board has also established a funding policy objective that the required contributions be sufficient to pay the Normal Costs of active plan members, Plan expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percent of TRS DCR Compensation over a closed 25-year period. This objective is currently being met and is projected to continue to be met.



The Alaska Retirement Management Board, The Department of Revenue and The Department of Administration July 27, 2012 Page 2

In our opinion, the actuarial assumptions used are

reasonable, taking into account the experience of the Plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the Plan. The actuary performs an analysis of Plan experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The last experience analysis was performed in 2010. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown in Section 5 beginning on page 32.

The assumptions and methods used to determine the Annual Required Contributions (ARC) of the Employers to the State of Alaska Teachers' Retirement System DCR Plan as outlined in this report and all supporting schedules meet the parameters and requirements for disclosure of Governmental Accounting Standards Board (GASB) Statements No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, and No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. Based on member data and asset information provided by the Division of Retirement and Benefits, we have prepared the Schedule of Funding Progress, Schedule of Employer Contributions, and trend data schedules under GASB Nos. 25 and 43 that are included in the Financial Section of the CAFR. We have also prepared the member data tables shown in Section 4 of this report for the Statistical Section of the CAFR, and the summary of actuarial assumptions and solvency test for the Actuarial Section of the CAFR.

The undersigned are Enrolled Actuaries, a Fellow and an Associate of the Society of Actuaries and Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted,

BUCK CONSULTANTS. LLC David H. Slashinsky

David H. Slishinsky, ASA, EA, MAAA

Principal, Consulting Actuary

Michael D. Mills, FSA, EA, MAAA Director, Consulting Actuary

Mules Mills

The undersigned actuaries are responsible for all assumptions related to the average annual per capita health claims cost and the health care cost trend rates, and hereby affirms their qualification to render opinions in such matters, in accordance with the qualification standards of the American Academy of Actuaries.

Melissa Bissett, FSA, MAAA

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Senior Consultant, Health & Productivity

EXECUTIVE SUMMARY

Overview

The State of Alaska Teachers' Retirement System DCR Plan provides occupational death & disability and retiree medical benefits to teachers and other eligible participants hired after June 30, 2006 or who have elected participation in this plan. The Commissioner of the Department of Administration is responsible for administering the Plan. The Alaska Retirement Management Board has fiduciary responsibility over the assets of the Plan. This report presents the results of the actuarial valuation of the Plan benefits as of the valuation date of June 30, 2011.

Purpose

An actuarial valuation is performed on the retirement plan annually as of the beginning of the fiscal year. The main purposes of the actuarial valuation detailed in this report are:

- 1. To determine the Employer contribution necessary to meet the Board's funding policy for the Plan:
- 2. To disclose the funding assets and liability measures as of the valuation date;
- 3. To disclose the accounting measures for the Plan required by GASB Nos. 25 and 43 as of the end of the last fiscal year;
- 4. To review the current funded status of the Plan;
- 5. To compare actual and expected experience under the Plan during the last fiscal year;
- 6. And to report trends in contributions, assets, liabilities, and funded status over the last several years.

The actuarial valuation provides a "snapshot" of the funded position of the TRS DCR Plan based on the plan provisions, membership, assets, and actuarial assumptions as of the valuation date.

Funding Status

The funding status is a measure of the progress that has been made in funding the plan as of the valuation date. It is determined as a ratio of the actuarial value of assets divided by the total actuarial accrued liability on the valuation date. A ratio of over 100% represents a plan that is ahead in funding, and a ratio of less than 100% represents a plan that is behind in funding on the valuation date. A comparative summary of the funding ratio from the prior and current actuarial valuations follows:

Funding Status as of June 30 ¹	2010	2011
(a) Accrued Liability ²	\$ 2,448	\$ 3,858
(b) Valuation Assets ²	5,472	<u>7,566</u>
(c) Unfunded Accrued Liability ² , (a) – (b)	\$ (3,024)	\$ (3,708)
(d) Funding Ratio based on Valuation Assets, (b) \div (a)	223.5%	196.1%
(e) Fair Value of Assets ²	\$ 5,077	\$ 7,825
(f) Funding Ratio based on Fair Value of Assets, (e) ÷ (a)	207.4%	202.8%

¹ Includes occupational death & disability and retiree medical benefits.

² In thousands.



Executive Summary (cont'd)

As shown previously, the funding ratio based on valuation assets as of June 30, 2011 has decreased from 223.5% to 196.1%, a decrease of 27.4%. The total calculated employer contribution rate has decreased from 0.49% of payroll for FY13 to 0.47% for FY14, a decrease of 0.02%. The reasons for the change in the funded status and calculated contribution rate are explained below.

(1) Retiree Medical Costs and Assumptions

Please refer to the State of Alaska Teachers' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2011 for a full description of the assumptions and costs of the retiree medical plan. Adjustments from these costs and assumptions are described in this report.

Due to the lack of experience for the DCR Plan only, base claims costs are based on those described in the actuarial valuation as of June 30, 2011 for TRS with some adjustments to reflect the differences between the DCR medical plan and the DB medical plan. These differences include different coverage levels and an indexing of the retiree out-of-pocket dollar amounts. To account for higher initial copays, deductibles and out-of-pocket limits, FY11 claims costs were reduced 5.9% for medical and 0.7% for prescription drugs. Retiree out-of-pocket amounts were indexed 4.8% each year to reflect the effect of the deductible leveraging on trend, putting the annual projected trend closer to the ultimate trend rate.

(2) Investment Experience

The approximate FY11 investment return based on fair value was 18.9% compared to the expected investment return of 8.00%. This resulted in a gain of approximately \$650,000 to the Plan from investment experience. The asset valuation method recognizes 20% of this gain (\$130,000) this year and an additional 20% in each of the next 4 years. In addition, 20% of the FY07 investment loss, 20% of the FY08 investment loss, 20% of the FY09 investment loss and 20% of the FY10 investment loss were recognized this year. The approximate FY11 asset return based on actuarial value was 7.4% compared to the expected asset return of 8.00%. The net result was an asset loss of \$36,000 which decreased the funded ratio by 0.9%.

(3) Salary Increase

During the period from June 30, 2010 to June 30, 2011, salary increases for continuing active members were slightly more than anticipated in the valuation assumptions.

(4) Demographic Experience

The number of active participants increased 20.57% from 2,246 at June 30, 2010 to 2,708 at June 30, 2011 due to the opening of the DCR Plan to new entrants as of July 1, 2006. The average age of active participants increased from 36.79 to 37.25 and average credited service increased from 2.07 to 2.62 years.



Executive Summary (cont'd)

(5) Changes in Methods Since the Prior Valuation

There have been no changes in asset or valuation methods from the prior valuation.

(6) Changes in Assumptions Since the Prior Valuation

There have been no changes in assumptions since the prior valuation, except for the assumption regarding Medicare Part B only participation for pre-65 retirees and active members. We now determine the Part B only status based on number of quarters worked since date of hire or re-hire where applicable.

(7) Changes in Benefit Provisions Since the Prior Valuation

There have been no changes in benefit provisions since the prior valuation.



Comparative Summary of Key Actuarial Valuation Results

Total Employer Contribution Rates for Occupational Death & Disability for Fiscal Year Ending:	2013	2014
(a) Employer Normal Cost Rate	0.04%	0.05%
(b) Past Service Cost Rate	(0.04)%	<u>(0.05)%</u>
(c) Total Employer Contribution Rate, (a) + (b), not less than 0%	0.00%	0.00%
Total Employer Contribution Rates for Retiree Medical for Fiscal Year Ending:	2013	2014
(a) Employer Normal Cost Rate	0.57%	0.54%
(b) Past Service Cost Rate	<u>(0.08)%</u>	<u>(0.07)%</u>
(c) Total Employer Contribution Rate, (a) + (b), not less than 0%	0.49%	0.47%
Total Employer Contribution Rates for Fiscal Year Ending:	2013	2014
(a) Total Employer Contribution Rate	0.49%	0.47%
(b) Board Adopted Total Employer Contribution Rate	0.49%	0.47%

The exhibit below shows the historical Board adopted employer contribution rates for the DCR Plan.

Valuation Date	Fiscal Year	Occupational Death & Disability	Retiree Medical	Total					
N/A	FY07	N/A	1.75%	1.75%					
N/A	FY08	0.56%	0.99%	1.55%					
N/A	FY09	0.62%	0.99%	1.61%					
June 30, 2007	FY10	0.32%	1.03%	1.35%					
June 30, 2008	FY11	0.28%	0.68%	0.96%					
June 30, 2009	FY12	0.00%	0.58%	0.58%					
June 30, 2010	FY13	0.00%	0.49%	0.49%					
June 30, 2011	FY14	0.00%	0.47%	0.47%					

Contribution rates are based on salary for DCR Plan members only.

The rates shown above are for funding purposes which differ from the Annual Required Contribution for GASB No. 43 reporting purposes. Under GASB No. 43, retiree medical liabilities are gross of the retiree drug subsidy and based on a discount rate in accordance with GASB parameters.



Comparative Summary of Key Actuarial Valuation Results (cont'd)

Summary of Actuarial Gain/(Loss)

The following table shows the gain/(loss) on total accrued liability (in thousands):

		cupational 1 & Disability	-	Retiree <u>Iedical</u>	<u>Total</u>
-	Retirement Experience	\$ 0	\$	0	\$ 0
-	Termination Experience	0		62	62
-	Active Mortality Experience	20		(3)	17
-	Inactive Mortality Experience	0		0	0
-	Disability Experience	25		(2)	23
-	New Entrants	(2)		(262)	(264)
-	Rehires	(1)		(162)	(163)
-	Other Demographic Experience	(30)		(131)	(161)
-	Salary Increases	0		N/A	0
-	Medical Claims Costs	N/A		107	107
-	Total	\$ 12	\$	(391)	\$ (379)

A gain on total accrued liability is favorable to the Plan. A loss is unfavorable.



Section 1

Actuarial Funding Results



Section 1.1

Actuarial Liabilities and Normal Cost (\$'s in 000's)

As of June 30, 2011	of F	ent Value Projected enefits	Accrued (Past Service Liability		
Active Members					
Occupational Death Benefits	\$	349	\$	31	
Occupational Disability Benefits		407		26	
Medical and Prescription Drug Benefits		10,676		4,386	
Medicare Part D Subsidy		(1,406)		(585)	
Subtotal	\$	10,026	\$	3,858	
Benefit Recipients					
Survivor Benefits	\$	0	\$	0	
Disability Benefits		0		0	
Medical and Prescription Drug Benefits		0		0	
Medicare Part D Subsidy		0		0	
Subtotal	\$	0	\$	0	
- Fotal	\$	10,026	\$	3,858	
Total Occupational Death & Disability	\$	756	\$	57	
Total Retiree Medical, Net of Part D Subsidy	\$	9,270	\$	3,801	
Total Retiree Medical, Gross of Part D Subsidy	\$	10,676	\$	4,386	
As of June 30, 2011			Normal Cost		
Active Members					
Occupational Death Benefits			\$	36	
Occupational Disability Benefits				44	
Medical and Prescription Drug Benefits				1,000	
Medicare Part D Subsidy				(133)	
Subtotal			\$	947	
Γotal			\$	947	
Total Occupational Death & Disability			\$	80	
Total Retiree Medical, Net of Part D Subsidy			\$	867	
Total Retiree Medical, Gross of Part D Subsidy			\$	1,000	



Section 1.2

Actuarial Contributions – FY14 (\$'s in 000's)

Normal Cost Rate		Occupational Death & Disability		Retiree Medical	Total	
(1) Total Normal Cost	\$	80	\$	867	\$	947
(2) DCR Plan Member Salaries Projected for FY12		160,509		160,509		160,509
(3) Employer Normal Cost Rate, (1) / (2)		0.05%		0.54%		0.59%
Past Service Rate						
(1) Accrued Liability	\$	57	\$	3,801	\$	3,858
(2) Valuation Assets		2,193		5,373		7,566
(3) Total Unfunded Liability, (1) – (2)	\$	(2,136)	\$	(1,572)	\$	(3,708)
(4) Funded Ratio based on Valuation Assets		3,847.4%		141.4%		196.1%
(5) Past Service Cost Amortization Payment		(80)*		(105)		(185)
(6) DCR Plan Member Salaries Projected for FY12		160,509		160,509		160,509
(7) Past Service Cost Rate, (5) / (6)		(0.05)%*		(0.07)%		(0.12)%
Total Employer Contribution Rate, not less than 0%		0.00%		0.47%		0.47%

The table below shows the total employer contribution rate based on total DB and DCR Plan payroll for informational purposes.

Total Employer Contribution Rate as Percent of Total Payroll

(1) Total Normal Cost	\$ 80	\$ 867	\$ 947	
(2) Total DB and DCR Plan Member Salaries Projected for FY12	731,652	731,652	731,652	
(3) Employer Normal Cost Rate, (1) / (2)	0.01%	0.12%	0.13%	
(4) Past Service Cost Amortization Payment	\$ (80)*	\$ (105)	\$ (185)	
(5) Past Service Cost Rate, (4) / (2)	(0.01)%	(0.01)%	(0.02)%	
(6) Total Employer Contribution Rate, (3) + (5)	0.00%	0.11%	0.11%	

^{*}Adjusted to offset normal cost, so employer contribution is not less than \$0.



Section 1.2 (cont'd)

Actuarial Contributions – FY14 (\$'s in 000's)

Schedule of Past Service Cost Amortizations - Occupational Death & Disability

	Amortizat	ion Period	Balances				
Charge	Date Created	Years Left	Initial	Out	standing	_	nning-of- Payment
Initial Unfunded Liability	06/30/2007	21	\$ 16	\$	16	\$	1
FY08 Gain	06/30/2008	22	(392)		(406)		(28)
Change in Assumptions	06/30/2009	23	(82)		(84)		(6)
FY09 Gain	06/30/2009	23	(594)		(609)		(40)
Change in Assumptions	06/30/2010	24	(7)		(8)		(1)
FY10 Gain	06/30/2010	24	(479)		(485)		(31)
FY11Gain	06/30/2011	25	(560)		(560)		(35)
Total				\$	(2,136)	\$	(140)

Schedule of Past Service Cost Amortizations - Retiree Medical

	Amortizat	ion Period	Balances				
Charge	Date Created	Years Left	Initial	Out	standing		nning-of- Payment
Initial Unfunded Liability	06/30/2007	21	\$ (239)	\$	(249)	\$	(17)
Change in Assumptions	06/30/2008	22	84		89		6
FY08 Gain	06/30/2008	22	(393)		(407)		(28)
Change in Assumptions	06/30/2009	23	(69)		(70)		(5)
FY09 Gain	06/30/2009	23	(281)		(289)		(19)
Change in Assumptions ³	06/30/2010	24	0		0		0
FY10 Gain	06/30/2010	24	(545)		(552)		(36)
FY11 Gain	06/30/2011	25	(94)		(94)		(6)
Total				\$	(1,572)	\$	(105)

³ The net effect of changing assumptions is less than \$1,000. The demographic assumption changes decreased liability by \$133 thousand and the economic assumption changes increased the liability by \$133 thousand. Therefore, the net effect of all assumption changes is \$0 for amortization purposes.



Section 1.2 (cont'd)

Actuarial Contributions – FY14 (\$'s in 000's)

Schedule of Past Service Cost Amortizations - Total

Amortization Period Balances							_	
Charge	Date Created	Years Left		Initial	Outstanding		Beginning-of- Year Payment	
Initial Unfunded Liability	06/30/2007	21	\$	(223)	\$	(233)	\$	(16)
Change in Assumptions	06/30/2008	22		84		89		6
FY08 Gain	06/30/2008	22		(785)		(813)		(56)
Change in Assumptions	06/30/2009	23		(151)		(154)		(11)
FY09 Gain	06/30/2009	23		(875)		(898)		(59)
Change in Assumptions	06/30/2010	24		(7)		(8)		(1)
FY10 Gain	06/30/2010	24		(1,024)		(1,037)		(67)
FY11 Gain	06/30/2011	25		(654)		(654)		(41)
Total					\$	(3,708)	\$	(245)

The amortization factor for 25 years is 15.898717. The weighted average amortization factor is 15.134694. The amortization method is level percentage of pay.

The equivalent single amortization period is 23.



Section 1.3

Actuarial Gain/(Loss) for FY11 (\$'s in 000's)

	De	ipational eath & sability	Retire	e Medical	Total		
(1) Expected Actuarial Accrued Liability							
(a) Accrued Liability, June 30, 2010	\$	18	\$	2,430	\$	2,448	
(b) Normal Cost for FY11		46		727		773	
(c) Interest on (a) and (b) at 8.00%		5		253		258	
(d) Benefit Payments for FY11		0		0		0	
(e) Interest on (d) at 8.00% for one-half year		0		0		0	
(f) Expected Accrued Liability as of June 30, 2011 (a) + (b) + (c) - (d) - (e)	\$	69	\$	3,410	\$	3,479	
(2) Actual Accrued Liability, June 30, 2011		57		3,801		3,858	
(3) Liability Gain/(Loss), (1)(f) – (2)	\$	12	\$	(391)	\$	(379)	
(4) Expected Actuarial Asset Value							
(a) Actuarial Asset Value, June 30, 2010	\$	1,577	\$	3,895	\$	5,472	
(b) Interest on (a) at 8.00%		126		312		438	
(c) Employer Contributions for FY11		474		1,154		1,628	
(d) Interest on (c) at 8.00% for one-half year		19		45		64	
(e) Benefit Payments for FY11		0		0		0	
(f) Interest on (e) at 8.00% for one-half year		0		0		0	
(g) Expected Actuarial Asset Value, June 30, 2011 (a) + (b) + (c) + (d) - (e) - (f)	\$	2,196	\$	5,406	\$	7,602	
(5) Actuarial Asset Value, June 30, 2011		2,193		5,373		7,566	
(6) Actuarial Asset Gain/(Loss), (5) - (4)(g)	\$	(3)	\$	(33)	\$	(36)	
(7) Actuarial Gain/(Loss), (3) + (6)	\$	9	\$	(424)	\$	(415)	
(8) Effect of the 2-Year Delay on Contributions	\$	551	\$	518	\$	1,069	
(9) FY11 Gain/(Loss) to be Amortized, (7) + (8)	\$	560	\$	94	\$	654	



Section 1.4

History of UAAL and Funded Ratio (\$'s in 000's)

Valuation Date	Ac	gregate crued ability	 luation ssets	Assets as a Percent of Accrued Liability	Infunded Accrued .iabilities (UAL)
June 30, 2007	\$	374	\$ 597	159.7%	\$ (223)
June 30, 2008	\$	801	\$ 1,728	215.7%	\$ (927)
June 30, 2009	\$	1,460	\$ 3,424	234.5%	\$ (1,964)
June 30, 2010	\$	2,448	\$ 5,472	223.5%	\$ (3,024)
June 30, 2011	\$	3,858	\$ 7,566	196.1%	\$ (3,708)



Section 2

Plan Assets

Section 2.1

Summary of Fair Value of Assets (\$'s in 000's)

As of June 30, 2011	[cupational Death & isability	Retiree Medical	F	Total air Value	Allocation Percent
Cash and Short-Term Investments						
- Cash and Cash Equivalents	\$	26	\$ 62	\$	88	1.1%
- Subtotal	\$	26	\$ 62	\$	88	1.1%
Fixed Income Investments						
- Domestic Fixed Income Pool	\$	284	\$ 692	\$	976	12.7%
- International Fixed Income Pool		44	108		152	2.0%
- High Yield Pool		44	106		150	2.0%
- Treasury Inflation Protection Pool		70	170		240	3.1%
- Emerging Debt Pool		44	 106		150	2.0%
- Subtotal	\$	486	\$ 1,182	\$	1,668	21.8%
Equity Investments						
- Domestic Equity Pool	\$	653	\$ 1,589	\$	2,242	29.3%
- International Equity Pool		411	999		1,410	18.4%
- Private Equity Pool		154	375		529	6.9%
- Emerging Markets Equity Pool		108	 263		371	4.8%
- Subtotal	\$	1,326	\$ 3,226	\$	4,552	59.4%
Other Investments						
- Real Estate Pool	\$	223	\$ 542	\$	765	10.0%
- Other Investments Pool		64	154		218	2.8%
- Absolute Return Pool		110	267		377	4.9%
- Other Assets		0	 0		0	0.0%
- Subtotal	\$	397	\$ 963	\$	1,360	<u> 17.7%</u>
Total Cash and Investments	\$	2,235	\$ 5,433	\$	7,668	100.0%
Net Accrued Receivables		45	 112		157	
Net Assets	\$	2,280	\$ 5,545	\$	7,825	



Section 2.2

Changes in Fair Value of Assets (\$'s in 000's)

Fiscal Year 2011 (in thousands)	upational & Disability	Retire	ee Medical	Total ir Value
(1) Net Assets, June 30, 2010				
(fair value)	\$ 1,479	\$	3,598	\$ 5,077
(2) Additions:				
(a) Member Contributions	\$ 0	\$	0	\$ 0
(b) Employer Contributions	474		1,154	1,628
(c) Interest and Dividend Income	41		99	140
(d) Net Appreciation (Depreciation) in				
Fair Value of Investments	286		694	980
(e) Other	 0		0	 0
(f) Total Additions	\$ 801	\$	1,947	\$ 2,748
(3) Deductions:				
(a) Medical Benefits	\$ 0	\$	0	\$ 0
(b) Death & Disability Benefits	0		0	0
(c) Investment Expenses	0		0	0
(d) Administrative Expenses	 0		0	 0
(e) Total Deductions	\$ 0	\$	0	\$ 0
(4) Net Assets, June 30, 2011				
(fair value)	\$ 2,280	\$	5,545	\$ 7,825
Approximate Fair Value Investment Return				
Rate During FY11 Net of All Expenses	18.9%		18.9%	18.9%

Section 2.3

Actuarial Value of Assets (\$'s in 000's)

The actuarial value of assets and the fair value were \$0 at June 30, 2006. Future investment gains and losses will be recognized 20% per year over 5 years. In no event may valuation assets be less than 80% or more than 120% of fair value as of the current valuation date.

In Thousands		cupational Death &		Retiree Medical		Total
(1) Deferral of Investment Return/(Loss) for FY11	<u> </u>	isability		Medicai		- Total
(a) Fair Value, June 30, 2010	\$	1,479	\$	3,598	\$	5,077
(b) Contributions for FY11	,	474	•	1,154	•	1,628
(c) Benefit Payments for FY11		0		0		0
(d) Actual Investment Return (net of expenses)		327		793		1,120
(e) Expected Return Rate (net of expenses)		8.00%		8.00%		8.00%
(f) Expected Return		137		333		470
(g) Investment Gain/(Loss) for the Year $(df.)$		190		460		650
(h) Deferred Investment Return/(Loss)		87		172		259
(2) Actuarial Value, June 30, 2011						
(a) Fair Value, June 30, 2011	\$	2,280	\$	5,545	\$	7,825
(b) 2011 Deferred Investment Return/(Loss)		87		172		259
(c) Preliminary Actuarial Value, June 30, 2011						
(a b.)		2,193		5,373		7,566
(d) Upper Limit: 120% of Fair Value, June 30, 2011		2,735		6,653		N/A
(e) Lower Limit: 80% of Fair Value, June 30, 2011		1,825		4,437		N/A
(f) Actuarial Value, June 30, 2011 (c. limited by d. and e.)	\$	2,193	\$	5,373	\$	7,566
(g) Ratio of Actuarial Value of Assets to Fair Value of Assets		96.2%		96.9%		96.7%
(h) Approximate Actuarial Value Investment Return Rate During FY11 Net of All Expenses		7.8%		7.2%		7.4%



Section 2.3 (cont'd)

Actuarial Value of Assets (\$'s in 000's)

The tables below show the development of gain/(loss) to be recognized in the current year (in thousands).

Occupational Death & Disability

Plan Year Ended	Asset C	Sain/(Loss)	Recogni	n/(Loss) zed in Prior 'ears	Recog	n/(Loss) nized This Year	Gain/(Loss) Deferred to Future Years						
6/30/2007	\$	0	\$	0	\$	0	\$	0					
6/30/2008		(25)		(15)		(5)		(5)					
6/30/2009		(127)		(50)		(25)		(52)					
6/30/2010		(14)		(3)		(3)		(8)					
6/30/2011		190		0		38		152					
Total	\$	24	\$	(68)	\$	5	\$	87					

Retiree Medical

Plan Year Ended	Asset C	Sain/(Loss)	Recogn	n/(Loss) ized in Prior ⁄ears	Recog	n/(Loss) nized This Year	Gain/(Loss) Deferred to Future Years		
6/30/2007	\$	(9)	\$	(8)	\$	(1)	\$	0	
6/30/2008		(71)		(42)		(14)		(15)	
6/30/2009		(369)		(148)		(74)		(147)	
6/30/2010		(58)		(12)		(12)		(34)	
6/30/2011		460		0		92		368	
Total	\$	(47)	\$	(210)	\$	(9)	\$	172	

Total

Plan Year Ended	Asset G	Sain/(Loss)	Recogn	n/(Loss) ized in Prior ⁄ears	Recog	n/(Loss) nized This Year	Deferre	n/(Loss) d to Future ears
6/30/2007	\$	(9)	\$	(8)	\$	(1)	\$	0
6/30/2008		(96)		(57)		(19)		(20)
6/30/2009		(496)		(198)		(99)		(199)
6/30/2010		(72)		(15)		(15)		(42)
6/30/2011		650		0		130		520
Total	\$	(23)	\$	(278)	\$	(4)	\$	259



Section 2.4

Historical Asset Rate of Return

	Actua	rial Value	Fair Value				
Year Ending	Annual	Cumulative	Annual	Cumulative			
June 30, 2008	6.4%	6.4%	(0.3)%	(0.3)%			
June 30, 2009	3.2%	4.8%	(12.0)%	(6.3)%			
June 30, 2010	4.2%	4.6%	6.4%	(2.3)%			
June 30, 2011	7.4%	5.3%	18.9%	2.6%			

Section 3

Accounting Information



Section 3.1

Schedule of Funding Progress (\$'s in 000's)

The exhibit below shows the death and disability plan disclosure under GASB No. 25.

	Actuarial Accrued Liabilities (AAL)	Actuarial Value of Assets	Funded Ratio	U	nfunded AAL (UAAL)	Co	vered Payroll	UAAL as a Percentage of Covered Payroll
June 30, 2011	\$ 57	\$ 2,193	3,847.4%	\$	(2,136)	\$	170,606	(1.3)%
June 30, 2010	18	1,577	8,761.1%		(1,559)		118,813	(1.3)%
June 30, 2009	14	1,071	7,650.0%		(1,057)		89,708	(1.2)%
June 30, 2008	44	420	954.5%		(376)		56,369	(0.7)%
June 30, 2007	16	0	0.0%		16		28,410	0.1%

The exhibit below shows the retiree medical disclosure without regard to Medicare Part D under GASB No. 43.

	Actuarial Accrue Liabilities (AAL)		Actuarial Value of Assets	Funded Ratio	U	nfunded AAL (UAAL)	Co	vered Payroll	UAAL as a Percentage of Covered Payroll
June 30, 2011	\$ 4,38	6 \$	5,373	122.5%	\$	(987)	\$	170,606	(0.6)%
June 30, 2010	2,80	9	3,895	138.7%		(1,086)		118,813	(0.9)%
June 30, 2009	1,69	0	2,353	139.2%		(663)		89,708	(0.7)%
June 30, 2008	89	9	1,308	145.5%		(409)		56,369	(0.7)%
June 30, 2007	40	3	597	148.1%		(194)		28,410	(0.7)%



Section 3.2

Schedule of Employer Contributions (\$'s in 000's)

The following shows the death and disability disclosure under GASB No. 25 for fiscal year ending 2007 and later.

Fiscal Year Ending	Annual Required Contribution (ARC)	Percentage of ARC Contributed
June 30, 2011	\$ 474	100%
June 30, 2010	\$ 442	100%
June 30, 2009	\$ 623	100%
June 30, 2008	\$ 408	100%
June 30, 2007	\$ 72	0%

The following shows the retiree medical disclosure without regard to Medicare Part D subsidy under GASB No. 43 for fiscal year ending 2007 and later.

Fiscal Year Ending	Annual Required Contribution (ARC)	Percentage of ARC Contributed
June 30, 2011	\$ 1,422	81%
June 30, 2010	\$ 1,628	87%
June 30, 2009	\$ 1,162	85%
June 30, 2008	\$ 763	85%
June 30, 2007	\$ 575	100%

The exhibit below shows the annual required contribution (ARC) as a percentage of pay.

Total Employer Contribution Rate

Valuation Date	Fiscal Year	Occupational Death & Disability	Retiree Medical	Total
N/A	FY07	N/A	1.75%	1.75%
N/A	FY08	0.56%	1.16%	1.72%
N/A	FY09	0.62%	1.16%	1.78%
June 30, 2007	FY10	0.32%	1.18%	1.50%
June 30, 2008	FY11	0.28%	0.84%	1.12%
June 30, 2009	FY12	0.00%	0.71%	0.71%
June 30, 2010	FY13	0.00%	0.60%	0.60%
June 30, 2011	FY14	0.00%	0.58%	0.58%



Section 3.3

Notes To Trend Data

Actuarial Assumptions, Methods and Additional Information Under GASB

Valuation Date	June 30, 2011
Actuarial Cost Method	Entry Age Normal
	Level Percentage of Pay for Occupational Death & Disability
	Level Dollar for Retiree Medical
Amortization Method	Level Percent of Pay, closed with bases established annually
Equivalent Single Amortization Period	23 years
Asset Valuation Method	5-year smoothed market
Actuarial Assumptions:	
Investment rate of return*	8.00%
Projected salary increases	6.11% for first 5 years of service grading down to 3.62% after 20 years
*Includes inflation at	3.12%

GASB 43 requires that the discount rate used in the valuation be the estimated long-term yield on investments that are expected to finance postemployment benefits. Depending on the method by which a plan is financed, the relevant investments could be plan assets, employer assets or a combination of plan and employer assets. The investment return should reflect the nature and the mix of both current and expected investments and the basis used to determine the actuarial value of assets.

The State of Alaska Teachers' Retirement System DCR Plan's retiree medical benefits are fully funded. Therefore, the 8.00% discount rate used for GASB 25 reporting is also applied herein for GASB 43 reporting.

Based on GASB accounting rules, the retiree drug subsidy the State of Alaska receives under Medicare Part D has not been recognized for GASB 43 disclosure purposes.

Disregarding future Medicare Part D payments, the fiscal 2014 employer ARC for accounting purposes is 0.58% of pay for retiree medical benefits and 0.58% of pay for retiree medical and death and disability benefits combined.



Section 3.4

Solvency Test (\$'s in 000's)

The exhibit below shows the combined occupational death & disability and retiree medical solvency test for valuation dates June 30, 2010 and before.

		Aggre	gate	Accrued Liab	ility Fo	or:				Portion of Accrued Liabilities Covered by Assets		
Valuation	(1) Active Member			(2) Inactive		(3) Active Members (Employer- Financed		/aluation			4-1	
Date	Con	tributions		Members		Portion)		Assets	(1)	(2)	(3)	
June 30, 2010 ¹	\$	0	\$	0	\$	2,448	\$	5,472	100.0%	100.0%	100.0%	
June 30, 2009 ¹		0		0		1,460		3,424	100.0%	100.0%	100.0%	
June 30, 2008 ¹		0		0		801		1,728	100.0%	100.0%	100.0%	
June 30, 2007		0		0		374		597	100.0%	100.0%	100.0%	
June 30, 2006		0		0		0		0	N/A	N/A	N/A	

Retiree medical liabilities are calculated using the funding assumptions (i.e., funding investment return and net of Medicare Part D subsidy).

Change in Assumptions

buckconsultant

Section 3.4 (cont'd)

Portion of Accrued Liabilities

100.0%

N/A

0.0%

N/A

Solvency Test (\$'s in 000's)

The exhibit below shows the occupational death & disability solvency test for valuation dates June 30, 2006 and later.

0

0

Occupational Death & Disability

0

0

Covered by Assets Aggregate Accrued Liability For: (1) (2) (3) **Active Members** Occupational Death & Disability (Employer-Valuation **Active Member** Inactive **Financed Valuation** Date **Contributions** (1) (2) (3) **Members** Portion) **Assets** 100.0% \$ 0 \$ 0 \$ 57 \$ 2,193 June 30, 2011 100.0% 100.0% June 30, 2010¹ 0 0 18 100.0% 100.0% 100.0% 1,577 June 30, 2009¹ 0 0 14 1,071 100.0% 100.0% 100.0% 420 June 30, 2008 0 0 44 100.0% 100.0% 100.0%

16

0

0

0

100.0%

N/A

June 30, 2007

June 30, 2006



Change in Assumptions

Section 3.4 (cont'd)

Solvency Test (\$'s in 000's)

The exhibit below shows the retiree medical solvency test for valuation dates June 30, 2006 and later.

		Aggre		tiree Medical Accrued Liab				Portion of Accrued Liabilities Covered by Assets			
Valuation Date	(1) Active Member Contributions		(2) Inactive Members		(3) Active Members (Employer- Financed Portion)		_	Retiree Medical Valuation Assets	(1)	(2)	(3)
June 30, 2011	\$	0	\$	0	\$	3,801	\$	5,373	100.0%	100.0%	100.0%
June 30, 2010 ¹		0		0		2,430		3,895	100.0%	100.0%	100.0%
June 30, 2009 ¹		0		0		1,446		2,353	100.0%	100.0%	100.0%
June 30, 2008 ¹		0		0		757		1,308	100.0%	100.0%	100.0%
June 30, 2007		0		0		358		597	100.0%	100.0%	100.0%
June 30, 2006		0		0		0		0	N/A	N/A	N/A

Retiree medical liabilities are calculated using the funding assumptions (i.e., funding investment return and net of Medicare Part D subsidy).

Change in Assumptions

buckconsultants

Section 4

Member Data



Section 4.1

Summary of Members Included

As of June 30	2007	2008	2009	2010	2011
Active Members					
(1) Number	641	1,198	1,792	2,246	2,708
(2) Average Age	36.63	36.82	37.10	36.79	37.25
(3) Average Credited Service	0.91	1.29	1.68	2.07	2.62
(4) Average Entry Age	35.72	35.53	35.42	34.72	34.63
(5) Average Annual Earnings	\$ 44,322	\$ 47,053	\$ 50,061	\$ 52,900	\$ 55,860
Retirees, Disableds and Beneficiaries					
(1) Number	0	0	0	0	0
(2) Average Age	N/A	N/A	N/A	N/A	N/A
(3) Average Monthly Death & Disability Benefit	N/A	N/A	N/A	N/A	N/A
Inactive Members*					
(1) Number	0	3	4	4	24
Total Number of Members	641	1,201	1,796	2,250	2,732

^{*}Inactive members are not eligible for future benefits from the Plan.

Average annual earnings are the annualized earnings for the fiscal year ending on the valuation date.

Section 4.2

Age and Service Distribution of Active Members

Annual Earnings by Age

Annual Earnings by Credited Service

		Total Annual	Average Annual		Years of		Total Annual	Average Annual
Age	Number	Earnings	Earnings		Service	Number	Earnings	Earnings
0 – 19	0	\$ 0	\$ 0	•	0	120	\$ 5,682,120	\$ 47,351
20 - 24	106	5,047,803	47,621		1	719	37,968,635	52,808
25 - 29	784	40,287,987	51,388		2	644	35,829,463	55,636
30 - 34	552	30,063,001	54,462		3	542	30,951,145	57,105
35 - 39	344	19,733,856	57,366	_	4	427	25,047,401	58,659
40 - 44	262	15,140,475	57,788		0 - 4	2,452	135,478,764	55,252
45 – 49	247	14,705,579	59,537		5 – 9	253	15,568,000	61,534
50 – 54	193	11,697,338	60,608		10 – 14	3	222,524	74,175
55 – 59	139	9,162,594	65,918		15 – 19	0	0	0
60 - 64	67	4,508,160	67,286		20 - 24	0	0	0
65 - 69	14	922,495	65,893		25 - 29	0	0	0
70 - 74	0	0	0		30 - 34	0	0	0
75+	0	0	0		35 - 39	0	0	0
•					40+	0	0	0
Total	2,708	\$151,269,288	\$ 55,860		Total	2,708	\$151,269,288	\$ 55,860

Years of Credited Service by Age

Years of Service										
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
0 – 19	0	0	0	0	0	0	0	0	0	0
20 - 24	106	0	0	0	0	0	0	0	0	106
25 - 29	738	46	0	0	0	0	0	0	0	784
30 - 34	499	52	1	0	0	0	0	0	0	552
35 - 39	301	43	0	0	0	0	0	0	0	344
40 - 44	235	27	0	0	0	0	0	0	0	262
45 – 49	216	29	2	0	0	0	0	0	0	247
50 – 54	161	32	0	0	0	0	0	0	0	193
55 – 59	124	15	0	0	0	0	0	0	0	139
60 - 64	59	8	0	0	0	0	0	0	0	67
65 – 69	13	1	0	0	0	0	0	0	0	14
70 - 74	0	0	0	0	0	0	0	0	0	0
75+	0	0	0	0	0	0	0	0	0	0
Total	2,452	253	3	0	0	0	0	0	0	2,708

Total annual earnings are the annualized earnings for the fiscal year ending on the valuation date.



Section 4.3

Member Data Reconciliation

		Vested				
	Actives	Inactive	Retired	Disabled	Beneficiary	Total
Total as of July 1, 2010	2,246	4	0	0	0	2,250
Vested Termination	(16)	16	0	0	0	0
Non-vested Termination	(309)	0	0	0	0	(309)
Refund of Contributions	(16)	0	0	0	0	(16)
Disabled	0	0	0	0	0	0
Retired	0	0	0	0	0	0
Deceased, No Beneficiary	0	0	0	0	0	0
Deceased, With Beneficiary	0	0	0	0	0	0
Return to Active	118	0	0	0	0	118
Data Adjustment	4	4	0	0	0	8
New Entrant	681	0	0	0	0	681
Total as of July 1, 2011	2,708	24	0	0	0	2,732



Section 4.4

Schedule of Active Member Valuation Data

Valuation Date	Number	Annual Earnings (000's)	Annual Average Earnings	Percent Increase/ (Decrease) in Average Earnings	Number of Participating Employers
June 30, 2011	2,708	\$ 151,269	\$ 55,860	5.6%	58
June 30, 2010	2,246	118,813	52,900	5.7%	58
June 30, 2009	1,792	89,708	50,061	6.4%	58
June 30, 2008	1,198	56,369	47,053	6.2%	58
June 30, 2007	641	28,410	44,322	0.0%	58
June 30, 2006	0	0	0	0.0%	58

Annual earnings are the annualized earnings for the fiscal year ending on the valuation date.



Section 5

Basis of the Actuarial Valuation

Section 5.1

Summary of Plan Provisions and Changes in Plan Provisions

(1) Effective Date

July 1, 2006, with amendments through June 30, 2011.

(2) Administration of Plan

The Commissioner of Administration or the Commissioner's designee is the administrator of the Plan. The Attorney General of the state is the legal counsel for the Plan and shall advise the administrator and represent the Plan in legal proceedings.

The Alaska Retirement Management Board prescribes policies, adopts regulations, invests the funds, and performs other activities necessary to carry out the provisions of the Plan.

(3) Employers Included

Currently there are 58 employers participating in the TRS DCR Plan, including the State of Alaska, 53 school districts, and four other eligible organizations.

(4) Membership

An employee of a participating employer who first enters service on or after July 1, 2006, or a member of the defined benefit plan who works for an employer who began participation on or after July 1, 2006, and meets the following criteria is a participant in the Plan:

- Permanent full-time or part-time elementary or secondary teachers, school nurses, or a person in a
 position requiring a teaching certificate as a condition of hire in a public school of the State of
 Alaska, the Department of Education and Early Development or in the Department of Labor and
 Workforce Development.
- Full-time or part-time teachers at the University of Alaska or persons occupying full-time administrative positions requiring academic standing who are not in the University's Optional Retirement Plan.

Members can convert to the DCR Plan if they are an eligible nonvested member of the TRS defined benefit plan whose employer consents to transfers to the defined contribution plan and they elect to transfer his or her account balance to the TRS DCR Plan.



Section 5.1 (cont'd)

Summary of Plan Provisions and Changes in Plan Provisions

(5) Member Contributions

There are no member contributions for the occupational death & disability and retiree medical benefits.

(6) Retiree Medical

- Member must retire directly from the plan to be eligible for retiree medical coverage. Normal retirement eligibility is the earlier of a) 30 years of service or b) Medicare eligible and 10 years of service.
- No retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare eligible.
- Coverage cannot be denied except for failure to pay premium.
- Members who are receiving disability benefits or survivors who are receiving monthly survivor benefits are not eligible until the member meets, or would have met if he/she had lived, the normal retirement eligibility requirements.
- The plan's coverage is supplemental to Medicare.
- The Medicare-eligible premium will be based on the member's years of service. The percentage of premium paid by the member is as follows:

Years of Service	Percent of Premium Paid by Member
Less than 15 years	30%
15 – 19	25%
20 – 24	20%
25 – 29	15%
30 years or more	10%



Section 5.1 (cont'd)

Summary of Plan Provisions and Changes in Plan Provisions

(7) Occupational Disability Benefits

- Benefit is 40% of salary at date of disability.
- There is no increase in the benefit after commencement.
- Member earns service while on occupational disability.
- Benefits cease when the member becomes eligible for normal retirement at Medicare-eligible age and 10 years of service, or at any age with 30 years of service.
- No retiree medical benefits are provided until normal retirement eligibility. The member's premium is 100% until they are Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

(8) Occupational Death Benefits

- Benefit is 40% of salary.
- There is no increase in the benefit after commencement.
- Benefits cease when the member would have become eligible for normal retirement.
- The period during which the survivor is receiving benefits is counted as service credit toward retiree medical benefits.
- No retiree medical benefits are provided until the member would have been eligible for normal retirement. The surviving spouse's premium is 100% until the member would have been Medicare eligible. Medicare-eligible premiums follow the service-based schedule above.

Changes Since the Prior Valuation

There have been no changes in benefit provisions since the prior valuation.



Section 5.2

Description of Actuarial Methods and Valuation Procedures

The funding method used in this valuation was adopted by the Board in October 2006. The asset smoothing method used to determine valuation assets was implemented effective June 30, 2006.

Benefits valued are those delineated in Alaska State statutes as of the valuation date. Changes in State statutes effective after the valuation date are not taken into consideration in setting the assumptions and methods.

Valuation of Liabilities

(A) Actuarial Method – Entry Age Actuarial Cost

Liabilities and contributions shown in the report are computed using the Entry Age Actuarial Cost method of funding. Any funding surpluses or unfunded accrued liability is amortized over 25 years as a level percentage of expected payroll. Payroll is assumed to increase by the payroll growth assumption per year for this purpose. However, in keeping with GASB requirements, the net amortization period will not exceed 30 years.

Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year for death and disability benefits (constant dollar amount for retiree medical benefits), from the assumed entry age to the last age with a future benefit were applied to the projected benefits to determine the normal cost (the portion of the total cost of the Plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members and determining an average normal cost rate which is then related to the total DCR Plan payroll of active members. The actuarial accrued liability for active members (the portion of the total cost of the Plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for beneficiaries and disabled members currently receiving benefits (if any) was determined as the actuarial present value of the benefits expected to be paid. No future normal costs are payable for these members.

The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date.

Under this method, experience gains or losses, i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

(B) Valuation of Assets

Effective June 30, 2006, the asset valuation method recognizes 20% of the investment gain or loss in each of the current and preceding four years. This method will be phased in over five years. Fair Value of Assets were \$0 as of June 30, 2006. All assets are valued at fair value. Assets are accounted for on an accrued basis and are taken directly from financial statements audited by KPMG LLP. Valuation assets are constrained to a range of 80% to 120% of the fair value of assets.



Section 5.2 (cont'd)

Description of Actuarial Methods and Valuation Procedures

(C) Valuation of Retiree Medical Benefits

The methodology used for the valuation of the retiree medical benefits is described in Section 6.2(c) of the State of Alaska Teachers' Retirement System Defined Benefit Plan Actuarial Valuation Report as of June 30, 2011.

Due to the lack of experience for the DCR Plan only, base claims costs are based on those described in the actuarial valuation as of June 30, 2011 for TRS with some adjustments. The claims costs were adjusted to reflect the differences between the DCR medical plan and the DB medical plan. These differences include different coverage levels and an indexing of the retiree out-of-pocket dollar amounts. To account for higher initial copays, deductibles and out-of-pocket limits, FY11 claims costs were reduced 5.9% for medical and 0.7% for prescription drugs. Retiree out-of-pocket amounts were indexed 4.8% each year to reflect the effect of the deductible leveraging on trend, putting the annual projected trend closer to the ultimate trend rate.

No implicit subsidies are assumed. Employees projected to retire with 30 years of service prior to Medicare are valued with commencement deferred to Medicare eligibility, as such participants will be required to pay the full plan premium. Explicit subsidies for disabled and normal retirement are determined using the plan-defined percentages of total projected plan costs, again with no implicit subsidy assumed.

Healthcare Reform

Healthcare Reform legislation passed on March 23, 2010 included several provisions with potential implications for the State of Alaska Retiree Health Plan liability. Buck evaluated the impact due to the following provisions; however, none of the impacts have been included in the valuation results.

Because the State plan is retiree-only, and was in effect at the time the legislation was enacted, not all provisions are required. Unlimited lifetime benefits and dependent coverage to age 26 are two of these provisions. We did look at the impact of including these provisions, but there was no decision made to adopt them, and no requirement to do so.

The Plan will be subject to the high cost plan excise tax (Cadillac tax). Based upon guidance available at the time of disclosure Buck estimated the year in which the tax would potentially affect Alaska to be sufficiently far into the future to produce a minimal impact. Buck determined the impact to be immaterial based on a blend of pre-Medicare and Medicare retirees.

We have not identified any other specific provisions of healthcare reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

Changes in Methods From the Prior Valuation

There have been no changes in methods since the prior valuation.



Section 5.3

Summary of Actuarial Assumptions and Changes in Assumptions

The demographic and economic assumptions used in the June 30, 2011 valuation are described below. Unless noted otherwise, these assumptions were adopted by the Board in December 2010. These assumptions were the result of an experience study performed for the DB Plan as of June 30, 2009.

Investment Return / Discount Rate	8.00% per year (geometric), compounded annually, net of
Salary Scale	expenses. Inflation – 3.12% per year.
Salary Scale	1 7
	Productivity – 0.5% per year.
D 11 G 1	See Table 1 for salary scale rates.
Payroll Growth	3.62% per year.
Total Inflation	Total inflation as measured by the Consumer Price Index for urban and clerical workers for Anchorage is assumed to increase 3.12% annually.
Mortality (Pre-termination)*	Based upon the 2005-2009 actual experience of the TRS DB Plan. (See Table 2). 55% of the 1994 Group Annuity Mortality (GAM) Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA for females and 45% for males. 15% of deaths are assumed to result from occupational causes.
Mortality (Post-termination)*	Based upon the 2005-2009 actual experience of the TRS DB Plan. (See Table 3). 3-year setback of the 1994 GAM Table, 1994 Base Year without margin projected to 2013 using Projection Scale AA for females and 4-year setback for males.
Turnover	Select rates were estimated and ultimate rates were set to the TRS DB Plan's rates loaded by 10%. (See Table 4).
Disability	Incidence rates based upon the 2005-2009 actual experience of the TRS DB Plan, in accordance with Table 5. Post-disability mortality in accordance with the RP-2000 Disabled Retiree Mortality Table. 15% of disabilities are assumed to result from occupational causes.
Retirement	Retirement rates were estimated in accordance with Table 6.
Marriage and Age Difference	Wives are assumed to be three years younger than husbands. 85% of male members and 75% of female members are assumed to be married.
Part-time Status	Part-time employees are assumed to earn 0.60 years of credited service per year.

^{*}The mortality assumptions include an allowance for expected future mortality improvement. The mortality table used was set in 2010 with an Actual Deaths to Expected Deaths ratio of 117%.



Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Expenses	All expenses are net of the investment return assumption.		
Per Capita Claims Cost	Sample claims cost rates adjusted to age 65 for FY12 medical benefits are shown below:		
			Prescription
		Medical	Drugs
	Pre-Medicare	\$ 9,497	\$ 2,799
	Medicare Parts A & B	\$ 1,551	\$ 2,799
	Medicare Part B Only	\$ 6,936	\$ 2,799
	Medicare Part D	N/A	\$ 534
Third Party Administrator Fees	\$162.47 per person per year; assumed trend rate of 5% per year.		
Base Claims Cost Adjustments	Due to higher initial copays, deductibles, out-of-pocket limits and member cost sharing compared to the DB medical plan, the following cost adjustments are applied to the per capita claims cost rates above:		
	• 0.941 for the medical plan.		
	• 0.993 for the prescription	on drug plan.	
	• 0.952 for the annual indexing of member cost sharing.		cost sharing.



Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Health Cost Trend

The table below shows the rate used to project the cost from the shown fiscal year to the next fiscal year. For example, 6.4% is applied to the FY12 medical claims costs to get the FY13 medical claims costs.

		Prescription
	Medical	Drugs
FY12	6.4%	7.1%
FY13	5.9%	5.9%
FY14	5.9%	5.9%
FY15	5.9%	5.9%
FY16	5.9%	5.9%
FY17	5.9%	5.9%
FY18	5.9%	5.9%
FY25	5.8%	5.8%
FY50	5.7%	5.7%
FY100	5.1%	5.1%

For the June 30, 2008 valuation and later, the Society of Actuaries' Healthcare Cost Trend Model is used to project medical and prescription drug costs. This model effectively begins estimating trend amounts beginning in 2012 and projects out to 2100. The model has been populated with assumptions that are specific to the State of Alaska.

Aging Factors			Prescription
	Age	Medical	Drugs
	0-44	2.0%	4.5%
	45-54	2.5%	3.5%
	55-64	3.5%	3.0%
	65-73	4.0%	1.5%
	74-83	1.5%	0.5%
	84-93	0.5%	0.0%
	94+	0.0%	0.0%
Retiree Medical Participation	Years of Serv	<u>rice</u> P	ercent Participation
	10-14		75%
	15-19		80%
	20-24		85%
	25-29		95%
	30+		100%



Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 1 Alaska TRS DCR Plan Salary Scale

Year of Employment	Unisex Rate
1-6	6.11%
7	5.94
8	5.78
9	5.61
10	5.44
11	5.28
12	5.11
13	4.94
14	4.78
15	4.61
16	4.45
17	4.28
18	4.11
19	3.95
20	3.78
21+	3.62

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 2 Alaska TRS DCR Plan Mortality Table (Pre-termination)

Age Male Female 20 .017% .012% 21 .018 .012 22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .021 34 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 </th
21 .018 .012 22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .021 34 .037 .023 36 .038 .024 37 .023 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
22 .019 .012 23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
23 .021 .013 24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .021 34 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
24 .024 .013 25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
25 .026 .013 26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
26 .030 .014 27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
27 .032 .014 28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
28 .033 .015 29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
29 .034 .016 30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
30 .035 .017 31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
31 .036 .019 32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
32 .037 .020 33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
33 .037 .021 34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
34 .037 .022 35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
35 .037 .023 36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
36 .038 .024 37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
37 .039 .025 38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
38 .041 .027 39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
39 .042 .029 40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
40 .045 .032 41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
41 .047 .034 42 .050 .037 43 .053 .039 44 .056 .041
42 .050 .037 43 .053 .039 44 .056 .041
43 .053 .039 44 .056 .041
.056 .041
45 .060 .042
46 .064 .044
47 .069 .047
48 .075 .051
49 .081 .055
50 .088 .061
51 .097 .068
52 .106 .078
53 .118 .090
54 .131 .102
55 .149 .116
56 .170 .135
57 .195 .157
58 .224 .181
59 .253 .208
60 .284 .239
61 .326 .274
62 .368 .314
63 .425 .359
64 .479 .410

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 3 Alaska TRS DCR Plan Mortality Table (Post-termination)

<u>Age</u>	Male	<u>Female</u>
50	.142%	.085%
51	.153	.092
52	.166	.100
53	.181	.111
54	.196	.124
55	.215	.143
56	.235	.163
57	.263	.185
58	.291	.212
59	.331	.246
60	.377	.285
61	.433	.328
62	.499	.378
63	.561	.434
64	.631	.498
65	.725	.570
66	.819	.653
67	.944	.745
68	1.064	.844
69	1.196	.948
70	1.362	1.052
71	1.512	1.150
72	1.634	1.242
73	1.787	1.342
74	1.915	1.434
75	2.094	1.583
76	2.298	1.726
77	2.518	1.918
78	2.748	2.094
79	3.061	2.338
80	3.361	2.669
81	3.788	2.985
82	4.292	3.327
83	4.868	3.707
84	5.510	4.136
85	6.214	4.625

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 4 Alaska TRS DCR Plan Turnover Assumptions

Select Rates of Turnover During the First 5 Years of Employment

Year of		
Employment	Rate	
		_
0	18%	
1	17%	
2	14%	
3	12%	
4	10%	

Ultimate Rates of Turnover After the First 5 Years of Employment

Age	Male	Female	Age	Male	Female
15	4.9042%	4.8122%	40	4.7508%	4.6924%
16	4.8981	4.8085	41	4.7372	4.6815
17	4.8931	4.8061	42	4.7199	4.6706
18	4.8882	4.8049	43	4.7038	4.6609
19	4.8857	4.8037	44	4.6827	4.6488
20	4.8474	4.7686	45	4.6593	4.6343
21	4.8448	4.7686	46	4.6345	4.6210
22	4.8399	4.7674	47	4.6035	4.6028
23	4.8362	4.7674	48	4.5676	4.5823
24	4.8300	4.7662	49	4.5306	4.5617
25	4.8250	4.7662	50	4.4884	4.5375
26	4.8201	4.7650	51	4.4389	4.5097
27	4.8151	4.7638	52	4.3808	4.4770
28	4.8102	4.7601	53	4.3164	4.4383
29	4.8052	4.7565	54	4.2447	4.3971
30	4.8015	4.7529	55	4.1630	4.3475
31	4.7991	4.7505	56	4.0640	4.2834
32	4.7953	4.7456	57	3.9427	4.2011
33	4.7929	4.7420	58	3.8103	4.1080
34	4.7916	4.7372	59	3.6507	3.9894
35	4.7892	4.7323	60	3.4713	3.8551
36	4.7854	4.7251	61	3.2720	3.7050
37	4.7805	4.7190	62	3.0406	3.5344
38	4.7718	4.7105	63	2.7770	3.3396
39	4.7619	4.7021	64	2.4912	3.1279
			65+	4.9500	4.8400

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 5
Alaska TRS DCR Plan
Disability Table

Alaska TRS DCR Plan			
	Disability Table		
<u>Age</u>	<u>Male</u>	<u>Female</u>	
20	.022%	.020%	
21	.022	.020	
22	.023	.021	
23	.023	.021	
24			
	.024	.022	
25	.024	.022	
26	.024	.022	
27	.025	.022	
28	.026	.023	
29	.026	.024	
30	.027	.025	
31	.027	.025	
32	.028	.025	
33	.029	.026	
34	.030	.027	
35	.030	.027	
36	.032	.029	
37	.033	.030	
38	.034	.031	
39	.035	.032	
40	.037	.033	
41	.038	.035	
42	.041		
		.037	
43	.043	.039	
44	.047	.043	
45	.052	.047	
46	.056	.050	
47	.061	.055	
48	.066	.060	
49	.071	.064	
50	.077	.069	
51	.083	.075	
52	.063	.082	
53	.102	.091	
54	.114	.102	
55	.128	.115	
56	.147	.133	
57	.171	.154	
58	.195	.176	
59	.230	.207	
60	.270	.243	
61	212	201	
61	.312	.281	
62	.362	.325	
63	.418	.376	
64	.477	.429	
onto			

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Table 6 Alaska TRS DCR Plan Retirement Table

Age	Rate
<55	2%
55-59	3%
60	5%
61	5%
62	10%
63	5%
64	5%
65	25%
66	25%
67	25%
68	20%
69	20%
70	100%

Section 5.3 (cont'd)

Summary of Actuarial Assumptions and Changes in Assumptions

Changes in Actuarial Assumptions Since the Prior Valuation

There have been no changes in assumptions since the prior valuation, except for the assumption regarding Medicare Part B only participation for pre-65 retirees and active members. We now determine the Part B only status based on number of quarters worked since date of hire or re-hire where applicable.



Glossary of Terms

Actuarial Accrued Liability Total accumulated cost to fund pension benefits arising from service

in all prior years.

Actuarial Cost Method Technique used to assign or allocate, in a systematic and consistent

manner, the expected cost of a pension plan for a group of plan

members to the years of service that vie rise to that cost.

Actuarial Present Value of Projected Benefits

Amount which, together with future interest, is expected to be

sufficient to pay all future benefits.

Actuarial Valuation Study of probable amounts of future pension benefits and the

necessary amount of contributions to fund those benefits.

Actuary Person who performs mathematical calculations pertaining to pension

and insurance benefits based on specific procedures and assumptions.

Annual Required Contribution Disclosure measure of annual pension cost.

GASB 25 and 27 Governmental Accounting Standards Board Statement Number 25

which specifies how the Annual Required Contribution (ARC) is to be calculated, and Number 27 which specifies Employer reporting of

Pension Cost.

GASB 43 and 45 Governmental Accounting Standards Board Statement Number 43

which specifies how the Annual Required Contribution (ARC) is to be calculated, and Number 45 which specifies Employer reporting of

Other Post-Employment Benefit (OPEB) Cost.

Liquidity Factor Is calculated as the average annual Fair Value of Assets divided by

the total annual benefit payments. This measures the approximate number of years that assets will cover benefit payments without contributions or investment return. Trend shows solvency risk.

Maturity Ratio The ratio of the actuarial accrued liability for members who are no

longer active to the total actuarial accrued liability. A ratio of over 50% indicates a mature plan. The higher the maturity ratio, the more volatile the contribution rate will be from year to year given actuarial

gains and losses.

Normal Cost That portion of the actuarial present value of benefits assigned to a

particular year in respect to an individual participant or the plan as a

whole.

Unfunded Actuarial Accrued

Liability (UAAL)

The portion of the actuarial accrued liability not offset by plan assets.

Vested Benefits Benefits which are unconditionally guaranteed regardless of

employment status.

